

We claim:

1. A pharmaceutical combination comprising an effective amount for a day of amphetamine in base and/or salt form wherein the molar ratio of l-amphetamine to d-amphetamine released therefrom in a time period later in the day is higher than said ratio released therefrom in a time period earlier in the day.
2. A pharmaceutical combination of claim 1, wherein said earlier period is the time before about 1:00 pm of a given day and said later period is the time thereafter.
3. A pharmaceutical combination of claim 1, wherein said amphetamine released in said earlier period comprises substantially only d-amphetamine, racemic amphetamine, or a mixture of d- and l-amphetamine having more d- than l-amphetamine.
4. A pharmaceutical combination of claim 1, wherein the molar ratio released of d- to l- amphetamine in said earlier period is about 4/1 to about 2/1.
5. A pharmaceutical combination of claim 1, wherein the molar ratio released of d- to l- amphetamine in said earlier period is less than 1/1.
6. A pharmaceutical combination of claim 1, wherein substantially only d-amphetamine is released in said early period.
7. A pharmaceutical combination of claim 1, wherein said amphetamine released in said earlier period comprises a mixture of d- and l-amphetamine having more l- than d-amphetamine.
8. A pharmaceutical combination of claim 1, wherein said amphetamine released in said later period comprises substantially only l-amphetamine, racemic amphetamine, or a mixture of d- and l-amphetamine having more l- than d-amphetamine.

9. A pharmaceutical combination of claim 1, wherein said amphetamine released in said later period comprises a mixture of d- and l-amphetamine having more l- than d-amphetamine.
10. A pharmaceutical combination of claim 1, wherein the molar ratio released of l- to d-amphetamine in said later period is about 2/1 to about 6/1.
11. A pharmaceutical combination of claim 1, wherein substantially only l-amphetamine is released in said later period.
12. A pharmaceutical combination of claim 1, wherein the total amphetamine dose per day is about 1 to about 200 mg.
13. A pharmaceutical combination of claim 1, which comprises two separate oral dosage forms, one identified to be administered at a time to provide amphetamine release in said earlier period and the other identified to be administered at a time to provide amphetamine release in said later period.
14. A pharmaceutical combination of claim 1, which comprises a single oral dosage form which provides amphetamine release in both said earlier and later periods.
15. A pharmaceutical combination of claim 1, which comprises a dosage form providing immediate release of d-amphetamine in said earlier period.
16. A method for treating ADHD comprising administering to a human effective amounts of the l- and d-isomers of amphetamine, each independently in free base and/or salt form, wherein the molar ratio of the total amount of l-isomer to the total amount of d-isomer administered per day is greater than 1:3.
17. A method according to claim 16, wherein doses are administered individually at different times or are administered once in a single staged-release dosage form.

18. A method according to claim 16, wherein doses are administered in one or more dosage forms that are either immediate release or pulse release dosage forms and/or sustained or controlled release dosage forms.
19. A method according to claim 18, wherein the sustained or controlled release dosage form or dosage forms contain the l isomer.
20. A method according to claim 1, wherein two doses of amphetamine are administered to the patient in a day, the first dose having an l to d isomer ratio of about 1:3 or contains only d isomer, and the later dose having an l to d isomer ratio of greater than about 1:1 or contains l isomer only.
21. A method according to claim 20, wherein the second dose contains l isomer only.
22. A pharmaceutical combination according to claim 1, wherein doses are administered individually at different times or are administered once in a single staged-release dosage form.
23. A pharmaceutical combination according to claim 1, wherein doses are administered in one or more dosage forms that are either immediate release or pulse release dosage forms and/or sustained or controlled release dosage forms.
24. A pharmaceutical combination according to claim 23, wherein the sustained or controlled release dosage form or dosage forms contain the l isomer.
25. A pharmaceutical combination according to claim 1, wherein two doses of amphetamine are administered to the patient in a day, the first dose having an l to d isomer ratio of about 1:3 or contains only d isomer, and the later dose having an l to d isomer ratio of greater than about 1:1 or contains l isomer only.
26. A pharmaceutical combination according to claim 25, wherein the second dose contains l isomer only.

27. A method of treating ADHD in a human comprising administering a pharmaceutical combination of claim 1.

28. A method of claim 27 wherein inattentiveness later in the day is treated as effectively by said l-isomer as with a corresponding molar amount of d-amphetamine and with a lesser side effect of sleep deterioration and/or decrease in food intake.